

Site Name: C0002 Hole Name: C0002Q Lat: 33° 18.0507'N Long: 136° 38.2029'E Seabed Depth: 1,967.5 mBRT RT-MSL: 28.5 m Report Date: 2/Dec/2018
 Depth: @24:00 4,990.0 mBRT 3022.5 mbsf Progress: 0.0 (40.0) m Drilling/Coring/Underreaming Hrs.: 24.00 hrs Last BOP PT: 11/15/2018 Next BOP PT: 12/6/2018
 Depth: @06:00 4,990.0 mBRT 3022.5 mbsf LAST CASING: 11-3/4" x 2,922.50 mbsf (4,890.0 mBRT) Last BOP FT: 11/29/2018 Next BOP FT: 12/6/2018
 Summary of Operation on 1-Dec: Open 8-1/2" to 12-1/4" hole from 4,922mBRT to 4,960mBRT. Last Glycol 35gal Inj. 11/27/2018
 Present Operation @ 06:00 on 2-Dec: Open 8-1/2" to 12-1/4" hole from 4,960mBRT to 4,968mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on 1-Dec) mbsf: meter below sea floor

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|--|-------|-------|------|-------------|--|
| 0:00 | 2:15 | 2:15 | OH | 4,990.0 | Open 8-1/2" to 12-1/4" hole from 4,920mBRT to 4,922mBRT. WOB: 0-90kN, HPS: 100rpm x 17-28kNm, MP: 600gpm x 19.0MPa, Downhole WOB: 10-50kN, Downhole torque: 5-9kNm, ECD 1.42-1.43sg Observe HPS torque starts increasing at 4,921.5mBRT from 20-23kNm to 23-28kNm, w/ 100rpm. Unable to function "Auto driller mode" due to DW mismatch from 2:00 and change manual drilling. Run centrifuge from 2:00 to 4:15 to maintain mud weight at 1.37sg. |
| 2:15 | 14:00 | 11:45 | OH | 4,990.0 | Open 8-1/2" to 12-1/4" hole from 4,922mBRT to 4,938mBRT. WOB: 0-120kN, HPS: 80rpm x 16-22kNm, MP: 600gpm x 19.4MPa, Downhole WOB: 10-80kN, Downhole torque: 3-9kNm, ECD 1.42-1.43sg Pump 3m ³ of 12ppb fracseal at 2:15 and 11:00. (04:30-04:45) Change mud pump line up of MP#1 and #2 to string due to MP#3 liner leak. (04:30-05:45) Stop booster line. (08:45-09:15) Wipe the single joint w/40rpm x 12-15kNm. Calibrate Downhole WOB and Torque by SLB engineer. Reset zero of Downhole torque after removing residual torque, and Zero Downhole WOB while rotating off bottom. (09:15-10:00) NSD connection. Shift flow line from "through Top drive" to "through NSD hose". Lay out 6m pup joint and Make up NSD stand w/6m pup Fill up stand by booster line, Shift flow line to "through top drive" from "through NSD hose". |
| 14:00 | 21:15 | 7:15 | OH | 4,990.0 | Open 8-1/2" to 12-1/4" hole from 4,938mBRT to 4,955mBRT. WOB: 90-100kN, HPS: 90rpm x 16-22kNm, MP: 600gpm x 19.6MPa, Downhole WOB: 40-80kN, Downhole torque: 3-5kNm, ECD 1.42-1.43sg Pump 3m ³ of 12ppb fracseal at 15:00. Run centrifuge from 19:30 to 22:30 to maintain mud weight at 1.37sg. |
| 21:15 | 0:00 | 2:45 | OH | 4,990.0 | Open 8-1/2" to 12-1/4" hole from 4,955mBRT to 4,960mBRT. WOB: 80-100kN, HPS: 90rpm x 16-24kNm, MP: 600gpm x 19.7MPa, Downhole WOB: 30-60kN, Downhole torque: 2-4kNm, ECD 1.43sg Pump 3m ³ of 12ppb fracseal at 21:30. |
| Offline Activities | | | | | |
| - Bunkering 301m ³ fuel from Shincho-maru at 7:00-10:00 | | | | | |
| - Recover Fracseal from cuttings at cuttings settling tank area. | | | | | |
| Ditch magnet: 1.5kg (Total 144.8kg) | | | | | |
| Time Breakdown (00:00 - 06:00 on 2-Dec) * The data on 00:00 - 06:00 is unofficial. | | | | | |

| From | To | Hrs | Code | Depth(mBRT) | Detail of Operation |
|------|------|------|------|-------------|--|
| 0:00 | 6:00 | 6:00 | OH | 4,990.0 | Open 8-1/2" to 12-1/4" hole from 4,960mBRT to 4,968mBRT. WOB: 85-100kN, HPS: 90rpm x 16-30kNm, MP: 600gpm x 19.6MPa, Downhole WOB: 30-70kN, Downhole torque: 1.5-3.5kNm, ECD 1.43sg (04:00-04:15) Calibrate DWOB and Torque. (04:15-05:00) NSD connection. (04:45-06:00) Stop Mud pump #3 (Booster line) due to #2&3 liner leak, on going. |

| Bit No. | Size (in) | MFR | Type | IADC Code | S/No. | Nozzles | Depth (mBRT) | Meter-age | Hrs. | WOB (kN) | rpm | Total Rev. (krev) | ROP (m/hr) | Dull Condition | | | | | | | | |
|---------|-------------|-----------|---------------|-----------|--------|------------------|--------------|-----------|------|-------------|-------------|-------------------|------------|----------------|-------|------|------|---|---|------|----|--|
| RR4b | 8.5 | Smith | Axeblade X614 | M323 | QF3233 | 3x12/32, 3x13/32 | From | To | | Min. / Max. | Min. / Max. | | | Inner | Outer | Dull | Loc. | B | G | O.D. | RP | |
| | 8.5 x 12.25 | Drillstar | Z-Reamer#50 | NA | 52763 | 1x 7/32, 2x 8/32 | 4894.00 | 4,960.00 | 66.0 | 38.26 | 0 / 120 | 80 / 100 | 179.1 | 1.7 | | | | | | | | |

| Bit Record @24:00 | Hook Wt. (knt) @24:00 | 4,961.0 mBRT |
|---|--------------------------|---------------|
| #13 8.5"x12.25 HO | Hook Load | 3,030 |
| 8-1/2" Bit sub w/non-ported x XO x arc/Vision675 x TeleScope675 x XO x 8-1/4" Stabilizer x 6-3/4" DC (1) x Z-Reamer x Float sub w/non-ported float x 6-3/4" DC (1) x XO x 6-3/4" Coring DC (3) x XO x 8-1/2" DC (3) x 8" Jar x 8-1/2" DC (3) x XO x 5.68" HWDP (3stds) x XO | BHA | 360 |
| | Below HWDP | 290 |
| | below Jar | 230 |
| | HPS & Traveling block | 620 |
| | Hook + RRT | - |
| | Hook block | - |
| | Jar Rotating time 24S/N: | 1762-5074 |
| | Today | 0.00 |
| | Total | 23.00 |
| | hrs | |
| | Cutting skip @24:00 | |
| | Empty | 38 |
| | Full | 2 |
| | Total | 40 |
| | ROV @24:00 | |
| | Status | Diving |
| | Last Dive | 12/1/2018 |
| | Injection Skid | 135 / 135 gal |

| Mud Type | Time | Depth (mBRT) | MW | VIS | PV | YV | 6rpm | Gel St. (10r, 10') | API | Cake | pH | Pf | Cl- | Sand | Oil | Solid | MBC | Temp (in / out) | K+ | n | K | LGS | FIT 20/40 (mm) | |
|----------|-------|--------------|------|-----|----|----|------|--------------------|-----|------|-----|-----|-----|---------|------|-------|------|-----------------|----|--------|------|------|----------------|---------|
| KNPP | 2:00 | 4,922 | 1.37 | 64 | 25 | 38 | 12 | 12 | 17 | 3.0 | 0.6 | 9.9 | 0.1 | 135,000 | 0.80 | 17.0 | 1.00 | 11 | 7 | 21,400 | 0.40 | 4.12 | 3.10 | 20 / 73 |
| KNPP | 12:30 | 4,936 | 1.37 | 62 | 25 | 38 | 12 | 12 | 18 | 3.1 | 0.6 | 9.9 | 0.1 | 138,000 | 0.80 | 17.0 | 1.00 | 11 | 7 | 21,400 | 0.40 | 4.12 | 3.10 | 17 / 61 |

| Mud Pumps: 14-P-220 | 5.00 | gallon/stroke @97% | Personnel @24:00 | Mud Materials on Board @24:00hrs (unit: kg) | | | | | | | | | | | |
|---------------------|--------------|--------------------|------------------|---|-------------------|----|----|------------------------|-----------|-------------|-----------|-------------|----------------|---------------|---------|
| No. | Liner Size | SPM | GPM | Press. (MPa) | Ann. Vel. (m/min) | DC | DP | CDEX | 10 | MQJ Crew | 103 | MQJ (Other) | 0 | Barite (Bulk) | 629,000 |
| 1 | 6" | 60 | 300 | 19.7 | | | | Caustic Soda | 1,200 | MQJ | 15 | MWJ | 15 | Lime | 200 |
| 2 | 6" | 60 | 300 | 79 | 63 | | | Soda Ash | 250 | 1,575 | Scientist | 14 | Caustic Potash | 350 | 2,125 |
| 3 | 6" (Booster) | 90 | 450 | | | | | Tel-Polymer DX / L / H | 600/200/0 | 2620/1800/0 | | | XCD-Polymer | 1,850 | |

| Geologic Information @24:00 | Shale Shaker @24:00 | Centrifuge: hrs | Personnel @24:00 | Mud Materials on Board @24:00hrs (unit: kg) | | | | | | | | | | | | | |
|-----------------------------|---------------------|-----------------------|------------------|---|-------------|-------|-------------|---|---------------|-------|-------------------|--------------------|-----------------|-----------|-----------------|--------|--------|
| From | To | Lithology of cuttings | Telinite | 2 | Tel Flu P | 0 | Franks | 4 | Driscol D | 0 | Driscol P | 0 | TV Crew | 4 | Poroseal | 2,310 | |
| | | | Oceanearing | 6 | SLB LWD | 2 | SLB Seismic | 0 | Steel Seal 50 | 1,000 | 3,750 | KCl | 2,000 | 9,000 | NaCl | 8,000 | 20,000 |
| | | | SLB Cementing | 2 | SLB Selsmic | 0 | AFGlobal | 2 | ENVENTURE | 1 | 1,020 / 210 / 510 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | Fractseal | 4,000 | 8,000 |
| | | | SLB WL | 0 | AFGlobal | 2 | ENVENTURE | 1 | SLB DD | 0 | 684 | Tel Plug C / M / F | 500 / 500 / 500 | 500 / 260 | Stopseal | 8,000 | 46,000 |
| | | | Geoservices | 6 | SLB DD | 0 | ENVENTURE | 1 | Fractseal | 4,000 | 684 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | Bentonite(Bulk) | 46,000 | |
| | | | M-1 SWACO | 4 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | SLB Underreamer | 2 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | SLB LWD | 2 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | SLB Selsmic | 0 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | AFGlobal | 2 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | ENVENTURE | 1 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | SLB DD | 0 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | Franks | 4 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | TV Crew | 4 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |
| | | | Total | 177 | Fractseal | 4,000 | ENVENTURE | 1 | Fractseal | 4,000 | 9,200 | Tel Stop P / G | 500 / 500 / 500 | 500 / 260 | | | |

| Shale Shaker @24:00 | Centrifuge: hrs | Personnel @24:00 | Mud Materials on Board @24:00hrs (unit: kg) | | | | |
|---------------------------------|-----------------|------------------|---|----------|-----|-----------------|-----|
| No.1 | 30, 50 x 2ea | No.4 | 20, Dummy x 2 | No.1 | off | Mud Volume (m3) | 432 |
| No.2 | 20, 50 x 2ea | No.5 | 30, 50 x 2ea | No.2 | off | KNPP mud (1.37) | 432 |
| No.3 | 30, Dummy x 2 | No.6 | 20, 50 x 2ea | No.3 | off | Slug mud | 16 |
| Materials Stock on Board @24:00 | | | | | | | |
| Item | Unit | Stock | Used | Received | | | |
| Fresh Water | m3 | 343.0 | 83.0 | 101.0 | | | |
| Potable Water | m3 | 274.4 | 7.6 | 0.0 | | | |
| Drill Water | m3 | 1,658.0 | 13.0 | 0.0 | | | |
| Fuel | m3 | 6,558.6 | 52.1 | 301.0 | | | |
| Lube, Oil | Ltrs | 107,600 | 0.0 | 0.0 | | | |
| Heli Fuel | Ltrs | 0.0 | 0.0 | 0.0 | | | |
| Cement "GWC" | ton | 186.0 | 0.0 | 0.0 | | | |
| Cement "G" | ton | 97.0 | 0.0 | 0.0 | | | |

| Boat Information @24:00 | Personnel @24:00 | Mud Materials on Board @24:00hrs (unit: kg) | | | | |
|-------------------------|------------------|---|----------|---------|-----------------|-----|
| Boat Name | Status | Time @Chikyū | Departed | Arrived | CDEX | 10 |
| #8 Meiji-maru | Chikyū | | | | MQJ Crew | 103 |
| Akatsuki | Chikyū | | | | MQJ (Other) | 0 |
| Shincho-maru | Shingū | 11:10 | | | MWJ | 15 |
| | | | | | Scientist | 14 |
| | | | | | Telinite | 2 |
| | | | | | Oceanearing | 6 |
| | | | | | SLB Cementing | 2 |
| | | | | | SLB WL | 0 |
| | | | | | Geoservices | 6 |
| | | | | | M-1 SWACO | 4 |
| | | | | | SLB Underreamer | 2 |
| | | | | | SLB LWD | 2 |
| | | | | | SLB Seismic | 0 |
| | | | | | AFGlobal | 2 |
| | | | | | ENVENTURE | 1 |
| | | | | | SLB DD | 0 |
| | | | | | Franks | 4 |
| | | | | | TV Crew | 4 |
| | | | | | Total | 177 |

| Weather Information | Heli Information @24:00 | Safety (HSE) and other information | Marine Information @24:00 | | | | | | | | | | |
|---------------------|-------------------------|---|---------------------------|---------|------------|-------------|------------|------------|-------------|------------|------------|----------------------|--|
| Time | Weather | Temp. (degC) | Barometer | Wind | Wave | Current | Visibility | Fit. | Time | Passenger | Heave (m) | 0.2 | |
| 24:00 | o | 15.5 | 1026.6 | 6.5 | Dir. (deg) | Speed (m/s) | Dir. (deg) | Period (s) | Speed (knt) | Dir. (deg) | Dir. (deg) | 0.1 | |
| | | 20.2 | 1026.6 | 6.5 | 3 | 7.8 | 1.3 | 250 | 4.8 | 2.4 | 22.0 | 0.1 | |
| Today's Schedule: | | Cont. open 8-1/2" to 12-1/4" hole to 4,990mBRT. Drill 8-1/2"x12-1/4" hole to 5,667.5mBRT. | | Remarks | | HUNS cards | | 34 | | No. LTA | | 0.0 | |
| | | | | | | | | | | | | Pitch (deg) | |
| | | | | | | | | | | | | Roll (deg) | |
| | | | | | | | | | | | | Vessel Heading (deg) | |
| | | | | | | | | | | | | Riser Tension (kN) | |
| | | | | | | | | | | | | V.D. Load (ton) | |
| | | | | | | | | | | | | Max Draught (m) | |
| | | | | | | | | | | | | Thruster (kW) | |
| | | | | | | | | | | | | 700 | |